

17707  
U.S. PTO

PTO/SB/05 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

ICC-102.2 DV II (91645)

First Inventor

Ashley J. Birkett

Title

IMMUNOGENIC HBc CHIMER PARTICLES...

Express Mail Label

EV337100433US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Mail Stop Patent Application  
Commissioner for Patents  
P. O. Box 1450  
Alexandria VA 22313-1450

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.  
See 37 CFR 1.27.

3. ☒ Specification [Total Pages **215**]  
(preferred arrangement set forth below)
- Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the invention
  - Brief Summary of the invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **10**]

5. Oath or Declaration [Total Pages **1**]
- a. ☐ Newly executed (original or copy)
- b. ☒ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).

6. ☒ Application Data Sheet. See 37 CFR 1.76

7. ☒ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a. ☒ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☒ Paper
- c. ☒ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.
17. ☒ Other: Prior Assignment and IDS  
Certificate of Express Mail

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP) of prior application No.: **See Data**

Prior application information: Examiner **Donna C. wortman**Group / Art Unit: **1648**

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

Customer Number:

or



Correspondence address below

Name	Edward P. Gamson, Esq.				
	WELSH & KATZ, LTD.				
Address	120 South Riverside Plaza				
	22nd Floor				
City	Chicago	State	Illinois	Zip Code	60606
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Name (Print/Type)

Edward P. Gamson, Esq.

Registration No. (Attorney/Agent)

29,381

Signature

Date

3/22/04

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) \$385.00

## Complete if Known

Application Number	Unknown
Filing Date	March 22, 2004
First Named Inventor	Ashley J. Birkett
Examiner Name	Unknown
Art Unit	Unknown
Attorney Docket No.	ICC-102.2 DV II (91645)

## METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:  
Deposit Account Number: 23-0920  
Deposit Account Name: WELSH & KATZ, LTD.

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	385.00
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$ 385.00)

### 2. EXTRA CLAIM FEES FOR UTILITY AND

Total Claims	Extra Claims	Fee from below	Fee Paid
12	-20** = 0	X 19.00 =	0.00
Independent Claims	0 - 3** = 0	X 43.00 =	0.00
Multiple Dependent			

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1202 18	2202 9	Claims in excess of 20	
1201 86	2201 43	Independent claims in excess of 3	
1203 290	2203 145	Multiple dependent claim, if not paid	
1204 86	2204 43	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)			(\$ 0.00)

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non - English specification	
1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR § 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Statement	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ )

## SUBMITTED BY

Name (Print/Type): Edward P. Gamson, Esq.  
Signature:

Registration No. (Attorney/Agent): 29,381  
Telephone: (312) 655-1500  
Date: 03/22/04

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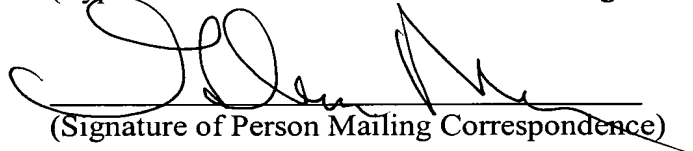
This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)			Docket No. (4564/91645) ICC-102.2 DV II
Applicant(s): Ashley J. Birkett			
Serial No. Unknown	Filing Date March 22, 2004	Prior Examiner D.C. Wortman	Prior Group Art Unit: 1648
<p><b>Title: IMMUNOGENIC HBc CHIMER PARTICLES HAVING ENHANCED STABILITY</b>          Fee Transmittal for FY 2004 (1pg), Utility Patent Application Transmittal (1pg),          Preliminary Amendment with Cert. of Express Mailing (8pgs); Application Data          Sheet (4pgs), Prior Declaration and Power of Attorney document (2pgs), Prior          Assignment and Recordation Cover Sheet (4pgs), Prior Information Disclosure          Statement &amp; PTO Form 1449 (6pg), Patent Application including Specification, 115          claims and abstract (215pgs), 10 sheet of formal drawings (Figs. 1-9), Statement          Under 37 CFR §1.821(f) with Cert of Express Mail (3pgs), Substitute Sequence List          (75pgs); Computer readable disk with Sequence List and Check No. 086371 in the          amount of \$385.00 for 12 claims, and Return Postcard.</p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee"          service under 37 CFR 1.10 in an envelope addressed to: Mail Stop Patent Application,          Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-0001 on March 22, 2004.</p>			

Glen Marsa

(Typed or Printed Name of Person Mailing Correspondence)



(Signature of Person Mailing Correspondence)

EV337100433US

("Express Mail" Mailing Label Number)

New Divisional Application -3-  
of Appln Serial No. 09/930,915

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this Sequence Listing Statement of Identity, together with a paper copy of the Sequence Listing and Computer Readable Form diskette, Transmittal Letter and its stated enclosures and Patent Application and its stated enclosures and Fee, and Preliminary Amendment, are being deposited with the United States Postal Service as Express Mail Label No. **EV337100433US**, postage prepaid in an envelope addressed to Mail Stop: PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on March 22, 2004.

A handwritten signature in black ink, appearing to be "J. D. ...", written over a horizontal line.

Divisional Application  
of Serial No.: 09/930,915

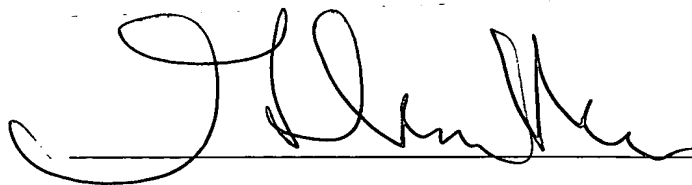
-8-

Enclosures

Application Data Sheet  
Transmittal Letter  
Fee Transmittal Sheet  
Cert. of Express Mailing page  
Previously filed Patent Application & Drawings  
Previously filed Declaration and Power of Attorney  
Previously filed Recorded Assignment and Cover Sheet  
Computer Readable Disk  
Substitute Sequence Listing  
Statement Under 37 CFR § 1.821(f)  
Application Fee

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this Preliminary Amendment and its stated enclosures, including Patent Application Transmittal Letter and its stated enclosures, Patent Application and filing fee are being deposited with the United States Postal Service as Express Mail Label No. EV337100433US, postage prepaid in an envelope addressed to: Mail Stop: PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on March 22, 2004.

A handwritten signature in black ink, appearing to read "J. H. Hunter", is written over a horizontal line.